



1645

PATENT

Docket No.: 19226/2081 (R-5661)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Balasubramanian et al.

Serial No. : 10/000,226

Cnfrm. No. : 9220

Filed : November 30, 2001

For : METHOD OF COMPLEXING A PROTEIN BY  
THE USE OF A DISPERSED SYSTEM AND  
PROTEINS THEREOF

Examiner:  
Unknown

Art Unit:  
1645

# 4

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.97-1.98

U.S. Patent and Trademark Office  
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Arlington, Virginia 22202  
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Dear Sir:

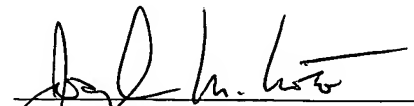
In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, applicants hereby bring to the attention of the United States Patent and Trademark Office, pursuant to 37 C.F.R. §§ 1.97-1.98, the enclosed documents listed on the attached PTO-1449 form.

Pursuant to 37 C.F.R. § 1.97(b), no fee is required. If additional fees are required, however, the Commissioner is hereby authorized to charge any fees to Deposit Account No. 14-1138.

It is respectfully requested than an Examiner-initialed copy of this form be returned to the undersigned.

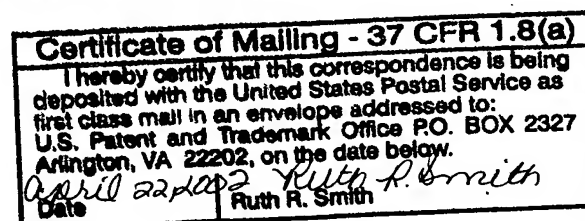
Respectfully submitted,

Date: April 22, 2002

  
Joseph M. Noto  
Registration No. 32,163

NIXON PEABODY LLP  
Clinton Square, P.O. Box 31051  
Rochester, New York 14603-1051  
Telephone: (585) 263-1601  
Facsimile: (585) 263-1600

RS73908.1



U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use several sheets if necessary)  
(PTO-1449)

ATTY. DOCKET NO.

19226/2081 (R-5661)

APPLICANT

Balasubramanian et al.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRAN- SLATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	1	Balasubramanian et al., "Liposomes as Formulation Excipients for Protein Pharmaceuticals: A Model Protein Study," <u>Pharm. Res.</u> , 17(3):344-350 (2000)
	2	Tavio et al., "Human Chorionic Gonadotropin in the Treatment of HIV-Related Kaposi's Sarcoma," <u>Eur. J. Cancer</u> , 34(10):1634-1637 (1998)
	3	Lunardi-Iskandar et al., "Effects of a Urinary Factor From Women in Early Pregnancy on HIV-1, SIV and Associated Disease," <u>Nature Med.</u> , 4(4):428-434 (1998)
	4	Lee-Huang et al., "Lysozyme and RNases as Anti-HIV Components in $\beta$ -core Preparations of Human Chorionic Gonadotropin," <u>Proc. Natl. Acad. Sci. USA</u> , 96:2678-2681 (1999)
	5	Timasheff et al., "Preferential Binding of Solvent Components to Proteins in Mixed Water-Organic Solvent Systems," <u>Biochem.</u> , 7(7):2501-2513 (1968)
	6	Rariy et al., "Protein Refolding in Predominantly Organic Media Markedly Enhanced by Common Salts," <u>Biotechnol. Bioeng.</u> , 62(6):704-710 (1999)
	7	Rariy et al., "Correct Protein Folding in Glycerol," <u>Proc. Natl. Acad. Sci. USA</u> , 94:13520-13523 (1997)
	8	Knubovets et al., "Structure, Thermostability, and Conformational Flexibility of Hen Egg-White Lysozyme Dissolved in Glycerol," <u>Proc. Natl. Acad. Sci. USA</u> , 96:1262-1267 (1999)
	9	Purohit et al., "Mutants of Human Choriogonadotropin Lacking N-Glycosyl Chains in the $\alpha$ -Subunit. 1. Mechanism for the Differential Action of the N-Linked Carbohydrates," <u>Biochem.</u> , 36:12355-12363 (1997)
EXAMINER		DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

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	19226/2081 (R-5661)		10/000,226
	APPLICANT		
	Balasubramanian et al.		
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	November 30, 2001		1645

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	10	Balasubramanian et al., "Interferon- $\gamma$ -Inhibitory Oligodeoxynucleotides Alter the Conformation of Interferon- $\gamma$ ," <u>Molecular Pharmacol.</u> , 53:926-932 (1998)
	11	Aloj et al., "Interaction of 1, 8-ANS With Human Luteinizing Hormones: A Probe for Subunit Interactions of hCG and hLH," <u>Arch. Biochem. Biophys.</u> , 165:478-479 (1973)
	12	Morozova et al., "Stability of Equine Lysozyme. I. Thermal Unfolding Behaviour," <u>Biophys. Chem.</u> , 41:185-191 (1991)
	13	Ikeguchi et al., "Evidence for Identity Between the Equilibrium Unfolding Intermediate and a Transient Folding Intermediate: A Comparative Study of the Folding Reactions of $\alpha$ -Lactalbumin and Lysozyme," <u>Biochem.</u> , 25:6965-6972 (1986)
	14	Luo et al., "The 28-111 Disulfide Bond Constrains the $\alpha$ -Lactalbumin Molten Globule and Weakens Its Cooperativity of Folding," <u>Proc. Natl. Acad. Sci. USA</u> , 96:11283-11287 (1999)
	15	Witzke et al., "Beta-Human Choriogonadotropin Therapy and HIV-Related Kaposi's Sarcoma," <u>Eur. J. Med. Res.</u> , 2:155-158 (1997)
	16	Lakowicz, <u>Principles of Fluorescence Spectroscopy, Second Edition</u> , New York, New York: Plenum Publishers, pp. 51-54 (1999)
	17	"Stability of Protein Pharmaceuticals: Part A: Chemical and Physical Pathways of Protein Degradation," in Ahern, eds., <u>Pharmaceutical Biotechnology</u> , Vol. 2, New York, New York: Plenum Press, pp. vii-xvii (1992)
	18	"Stability of Protein Pharmaceuticals: Part B: <i>In Vivo</i> Pathways of Degradation and Strategies for Protein Stabilization," in Ahern, eds., <u>Pharmaceutical Biotechnology</u> , Vol. 3, New York, New York: Plenum Press, pp. vii-viii (1992)
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